

Mid-Course Test

Form A

Chapter 1-6

1. Write ten and forty-six thousandths in standard form.
2. Order the decimals from least to greatest.
4.3, 4.19, 4.299, 4.2, 3.99
3. Round 67.32 to the tens place.
4. Find the sum. $1.46 + 9.3 + 0.7$
5. A baseball game begins at 8:00 P.M. It takes 45 minutes to get there. When should you leave for the game if you want to arrive one hour early?
6. Explain how you would use mental math to divide 7.6 by 100.
7. Evaluate the expression.
 $12.1 \div (11 \times 11) + 0.9$
8. Write a rule to describe the number pattern.
5, 15, 45, 135, ...
9. Evaluate the expression for the given values.
 $3x - 7y$ for $x = 12$ and $y = 3$
10. Solve. $x + 1.6 = 3$
11. Explain why the number 3 is NOT a solution to the equation $12x = 30$.
12. Write $2 \times 2 \times 2 \times p \times p \times p \times p \times p$ using exponents.
13. Evaluate. $(3^2 - 8)^2 + 5^2$
14. Rewrite $4(f + 3)$ using the Distributive Property.

Mid-Course Test (continued)

Form A

Chapters 1-6

15. Write an expression equivalent to $(15 \cdot 10) + (15 \cdot 10)$

21. Write an improper fraction with a denominator of 12 that is equivalent to two and one fourth.

16. What kind of numbers are NOT divisible by two?

22. The prime factorizations of two numbers are $2 \times 2 \times 2 \times 3 \times 7$ and $2 \times 2 \times 3 \times 5$. What is the LCM of the two numbers?

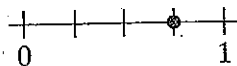
17. The prime factorization of a number is $2 \times 2 \times 3 \times 5 \times 5$. What is the number?

23. Tom ran $3\frac{1}{5}$ miles. John ran $3\frac{3}{20}$ miles. Who ran farther?

18. The GCF of 28 and some other number is 7. What are the two least possible values for the other number?

24. Describe how to convert 0.45 to a fraction in simplest terms. Write the fraction.

19. What fraction is plotted on the number line?



20. Fill in the $\underline{\quad ? \quad}$ with $<$, $>$, or $=$.
 $\frac{5}{11} \underline{\quad ? \quad} \frac{1}{2}$

25. Round $22\frac{3}{8}$ in. to the nearest half inch.

26. $\frac{11}{23}$ of your class are girls. What fraction of the class is boys?

Mid-Course Test (continued)**Form A****Chapters 1–6**

27. Write the difference in simplest form.

$$\frac{2}{3} - \frac{1}{12} - \frac{1}{4}$$

32. Evaluate
- $30n$
- for
- $n = \frac{14}{15}$
- .

28. Write the sum in simplest form.

$$11\frac{13}{14} + 3\frac{1}{7}$$

33. A newborn kitten is about
- $3\frac{1}{2}$
- inches long. The mother cat is 4 times as long as the baby. How long is the mother?

29. Write the difference in simplest form.

$$25\frac{1}{10} - 12\frac{4}{5}$$

34. Find the quotient. Write your answer in simplest form.

$$\frac{1}{2} \div \frac{11}{12}$$

30. Solve. Write your answer in simplest form.

$$15\frac{1}{3} = n + 4\frac{5}{6}$$

35. A standard 2-by-4 board is 8 feet long. How many
- $1\frac{1}{2}$
- foot stakes can you make out of one standard 2-by-4? How much wood will you have left over?

31. You are going on a trip by plane. Your first flight arrives at 11:20 A.M. Your connection flight departs at 1:10 P.M. How long do you have to wait at the airport between flights?

36. Solve.
- $\frac{7}{3}b = 2\frac{1}{3}$

Mid-Course Test (continued)

Form A

Chapters 1-6

37. A grandfather clock chimes every $\frac{1}{4}$ of an hour. How many times does it chime in a week?

38. What unit of measurement would you most likely use to measure the weight of a car?

39. Complete the statement.
504 h = ? weeks

40. Make a line plot of the following test scores:
84, 88, 90, 94, 100, 88, 90, 90, 94

41. Find the range for the data set in Exercise 40.

42. Find the mode for the data set in Exercise 40.

43. Which type of data display, a bar graph or a line graph, is more appropriate for displaying the following data? Explain.

Sales at a gift shop:

January: \$20,000

February: \$16,000

March: \$15,000

April: \$16,500

Use the following spreadsheet for Exercises 44 and 45.

	A	B	C	D
1	Date	Book Sales (\$)	Music Sales (\$)	Total Sales (\$)
2	11-02-06	554	683	
3	11-03-06	679	650	

44. What is the value in cell C2?

45. Write the formula for cell D3.

46. Which measurement, the mean or the median, more accurately describes the data in the following data display?

1	94
2	26 30 31 32
3	68 69

Key: 1 | 94 means 194.

Answers (continued)

Quarter 4 Test, Form B

1. 21 2. -17, -12, 0, 5, 7 3. -6 4. -14 5. -12 6. 15
7. -60 8. $\frac{(-30)}{(-5)}$ 9. (-3, 0) 10. (2, -4) 11. -8°F 12. 2
13. horizontal 14. (-3, 4) 15. parallelogram 16. -1
17. $\frac{6}{19}$ 18. 0.53 19. $\frac{5}{7}$ 20. 6 shots 21. $\frac{1}{8}$ 22. $\frac{3}{125}$
23. \times 24. independent 25. $\frac{5}{81}$ 26. Subtract 11 from both
sides; then multiply both sides by 3. 27. $h = 2$ 28. $p \leq 50$
29. $x \geq -2$ 30. $n - 12 \geq 15; n \geq 27$ 31. $t < 18$ 32. $\sqrt{20}$
33. 22 and 23 34. When you simplify, $6 + 8 \neq 10$ 35. $c = 26.1$

Quarter 4 Test, Form D

1. 15 2. -9, -6, -1, 1, 3 3. -35 4. -8 5. -24 6. B
7. (-4, 3) 8. (3, -2) 9. 12°F 10. 1 11. vertical 12. (4, -1)
13. 9 14. $\frac{4}{9}$ 15. $\frac{9}{20}$ 16. $\frac{9}{14}$ 17. 27 games 18. $\frac{1}{36}$
19. not independent 20. $\frac{24}{121}$ 21. $x = 3$ 22. $x < 3$
23. $n + 6 < 15; n < 9$ 24. $w \geq 15$ 25. $\sqrt{30}$ 26. 17 and 18
27. $c = 10$

Quarter 4 Test, Form E

1. 21 2. -17, -12, 0, 5, 7 3. -14 4. -12 5. -60 6. C
7. (-3, 0) 8. (2, -4) 9. -8°F 10. 2 11. horizontal
12. (-3, 4) 13. 1 14. $\frac{6}{19}$ 15. 0.53 16. $\frac{5}{7}$ 17. 6 shots
18. $\frac{1}{8}$ 19. independent 20. $\frac{5}{81}$ 21. $h = 2$ 22. $x \geq -2$
23. $n - 12 \geq 15; n \geq 27$ 24. $t < 18$ 25. $\sqrt{20}$ 26. 22 and 23
27. 15

★ Mid-Course Test, Form A ★

1. 10.046 2. 3.99, 4.19, 4.2, 4.299, 4.3 3. 70 4. 11.46
5. 6:15 P.M. 6. Move the decimal point two places to the left.
7. 1 8. Start with 5 and multiply by 3 repeatedly. 9. 15
10. 1.4 11. $12 \cdot 3$ does not equal 30. 12. $2^3 p^5$ 13. 26
14. $(4 \cdot f) + (4 \cdot 3)$ 15. $15(10 + 10)$ 16. odd numbers
17. 300 18. 7 and 21 19. $\frac{3}{4}$ 20. $<$ 21. $\frac{27}{12}$ 22. 12
23. Tom 24. Write 0.45 as $\frac{45}{100}$, then simplify; $\frac{9}{20}$ 25. $22\frac{1}{2}$ in.
26. $\frac{12}{23}$ 27. $\frac{1}{3}$ 28. $15\frac{1}{14}$ 29. $12\frac{3}{10}$ 30. $n = 10\frac{1}{2}$
31. 1 h 50 min 32. 28 33. 14 in. 34. $\frac{6}{11}$ 35. $5\frac{1}{2}$ ft
36. $b = 1$ 37. 672 times 38. ton 39. 3
40.

	X	X	X	X	X
X	X	X	X	X	X

84 88 90 94 100
41. 16 42. 90 43. Line graph; a line graph shows changes in data over time.
44. \$683 45. $B3 + C3 = D3$
46. mean

Mid-Course Test, Form B

1. 106.08 2. 6.09, 6.1, 6.2, 6.59, 6.6 3. 125 4. 23.42
5. 12:45 P.M. 6. Move the decimal point two places to the right.
7. 3 8. Start with 10 and add 20 repeatedly. 9. 51 10. 1.1
11. 15 divided by 3 does not equal 6. 12. $3^4 k^2$ 13. 14 14. $(7 \cdot 3) + (m \cdot 3)$ 15. $45(10 + 2)$ 16. It ends in 0 or 5. 17. 378
18. 9 and 27 19. $\frac{1}{6}$ 20. $>$ 21. $\frac{21}{6}$ 22. 6 23. John
24. Write 0.32 as $\frac{32}{100}$, then simplify; $\frac{8}{25}$ 25. 17 in. 26. $\frac{18}{25}$ 27. $\frac{13}{16}$
28. $21\frac{7}{12}$ 29. $8\frac{1}{3}$ 30. $n = 21\frac{1}{8}$ 31. 55 min 32. 33 33. 20 in.
34. $\frac{4}{15}$ 35. $6\frac{1}{2}$ ft 36. $d = 1$ 37. 203 times 38. yards 39. 6
40.

	X	X	X	X	X
X	X	X	X	X	X

80 85 90 95 100
41. 20 42. 85 43. Line graph; a line graph shows changes in data over time.
44. \$241 45. $B3 + C3 = D3$
46. median

Mid-Course Test, Form D

1. 10.046 2. 3.99, 4.19, 4.2, 4.299, 4.3 3. 70 4. 11.46 5. Move
the decimal point two places to the left. 6. 1 7. Start with 5
and multiply by 3 repeatedly. 8. 15 9. 1.4 10. $x = 2.5$
11. $2^3 p^5$ 12. 26 13. $(4 \cdot f) + (4 \cdot 3)$ 14. odd numbers
15. 300 16. 7 and 21 17. $\frac{3}{4}$ 18. $\frac{27}{12}$ 19. 12 20. Tom
21. Write 0.45 as $\frac{45}{100}$, then simplify; $\frac{9}{20}$ 22. $22\frac{1}{2}$ in. 23. $\frac{12}{23}$
24. $\frac{7}{12}$ 25. $15\frac{1}{14}$ 26. $12\frac{3}{10}$ 27. $n = 10\frac{1}{2}$ 28. 1 h 50 min
29. 14 in. 30. $\frac{6}{11}$ 31. $b = 1$ 32. 672 times 33. ton 34. 3
35.

	X	X	X	X	X
X	X	X	X	X	X

84 88 90 94 100
36. 16 37. 90 38. Line graph; a line graph shows changes in data over time.
39. \$683 40. $B3 + C3 = D3$
41. mean

Mid-Course Test, Form E

1. 106.08 2. 6.09, 6.1, 6.2, 6.59, 6.6 3. 125 4. 23.42 5. Move
the decimal point two places to the right. 6. 3 7. Start with
10 and add 20 repeatedly. 8. 51 9. 1.1 10. $p = 3.2$
11. $3^4 k^2$ 12. 14 13. $(7 \cdot 3) + (m \cdot 3)$ 14. It ends in 0 or 5.
15. 378 16. 9 and 27 17. $\frac{1}{6}$ 18. $\frac{21}{6}$ 19. 6 20. John
21. Write 0.32 as $\frac{32}{100}$, then simplify; $\frac{8}{25}$ 22. 17 23. $\frac{18}{25}$
24. $\frac{13}{16}$ 25. $21\frac{7}{12}$ 26. $8\frac{1}{3}$ 27. $n = 6\frac{1}{8}$ 28. 55 min 29. 20 in.
30. $\frac{4}{15}$ 31. $d = 1$ 32. 203 times 33. yards 34. 6
35.

	X	X	X	X	X
X	X	X	X	X	X

80 85 90 95 100
36. 20 37. 85 38. Line graph; a line graph shows changes in data over time.
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